





- Built in the late 1970's
- Function
- Automation upgrade in early 2000's
 - Included switches at each end of the dock
- Automation upgrade in late 2005 / early 2006
 - Included remote system



- Remote sales by SGC Yacht Club
 - Included remote, waterproofed container and laminated instructions
 - Challenges began over time; user dissatisfaction increased
 - Calls to Sheriff's Office then transitioned to Tom Adams Bridge after signs were installed



- Majority of calls due to operator error versus mechanical issues
 - Users repeatedly attempting to activate remote
 - Users activating remote before coming into proper range
- Staff call outs
 - At least 45 times in an 18-month period when remote system was enabled
- Remote function was disabled in 2018



Operating Options

 Staff has researched the following options for the operation of the South Gulf Cove Boat Lock.



- Modify existing manual process by eliminating middle pull chains and adding a control panel in the center of the lock
 - User frustration over pull chain
 - Eliminating due to overheating the electrical and hydraulic lock components
- Estimate for upgrade \$20,000

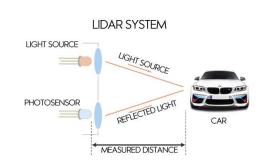


- Create an application for phone/tablet use
 - Wifi controlled application ruled out
 - Security reasons linked to county network
 - Users could control lock with a Wifi connection anywhere
 - Bluetooth controlled application ruled out
 - Staff was unable to find any vendor who could create a Bluetooth application and anticipates not all users would have a smart device to activate the lock in this manner.
 - MSBU is not an appropriate funding source



- Enable Remote System
 - Policy, procedure, fee schedule implementation
 - Annual fee and reactivation
 - System ideally would fund itself but cost projections are unknown
 - Unknown costs
 - Additional upgrades may be required
 - Projected program costs are hard to define
 - MSBU is not an appropriate funding source





- Lidar Automation System
 - Sensors could automate opening and closing of the gates
 - Ability to see and detect vessels
 - Estimate for implementation \$250,000 \$300,000

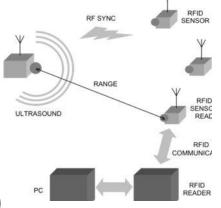


Ultrasonic and RFID Automation System

RFID Technology provides more owner responsibility

This system could present numerous challenges

Estimate for implementation \$160,000





- Tom Adams Bridge Tender remote access
 - Require hard-wired fiber optics
 - Includes CCTV, operator control panel, cameras at the Lock and an intercom system
 - Estimate for implementation \$200,000 plus the cost of running fiber optics if available at Westport Facility
 - 24 hour operation





- Onsite Lock Tender
 - Lease small self-contained trailer for staff person
 - Requires potable water and wastewater services
 - 12 hour shifts 7 days a week
 - Estimate for annual costs \$270,000





South Gulf Cove Lock

- South Gulf Cove Waterway Advisory Board Recommendation
 - Sept. 17, 2020 Meeting
 - 2 members absent
 - 3 members voted in favor of enabling the remote system



Moving Forward

- Staff proposes an onsite lock tender
- Benefits include:
 - Boater convenience
 - Safety
 - Reduced damage and maintenance to infrastructure components



Questions?

